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| APPLICATION NO.     | FILING DATE                                 | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------|---|----------------------|---------------------|------------------|
| 10/062,133          | 01/30/2002                                  | Yu-Cheun Jou         | PA450C1             | 3837             |
|                     | 7590 02/09/200 <sup>.</sup><br>INCORPORATED |                      | EXAMINER            |                  |
| 5775 MOREHO         | OUSE DR.                                    |                      | MEW, KEVIN D        |                  |
| SAN DIEGO, CA 92121 |   |                      | ART UNIT            | PAPER NUMBER     |
|                     |   |                      | 2616                |                  |
|                     |   |                      |                     |                  |
| SHORTENED STATUTORY | Y PERIOD OF RESPONSE                        | NOTIFICATION DATE    | DELIVERY MODE       |                  |
| 3 MOI               | NTHS  | 02/09/2007           | ELECT               | RONIC            |

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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|  |  |  |   | _ട്വ |
|--|--|--|---|------|
|  |  | Application No.  | Applicant(s)  | •    |
| Office Action Summary                                |  | 10/062,133   | JOU, YU-CHEUN   |      |
|  |  | Examiner   | Art Unit  |      |
|  |  | Kevin Mew  | 2616  |      |
| Period fo  | The MAILING DATE of this communication app<br>or Reply   | ears on the cover sheet with the   | correspondence address  |      |
| WHIC<br>- Exte<br>after<br>- If NC<br>- Failu<br>Any | ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be til vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). |      |
| Status   |  |  |   |      |
| 1)🖂  | Responsive to communication(s) filed on 18 Se  | eptember 2006.   |   |      |
| 2a)□   | This action is <b>FINAL</b> . 2b)⊠ This  | action is non-final.   |   |      |
| 3)   | Since this application is in condition for allowar   | nce except for formal matters, pr  | osecution as to the merits is   |      |
|  | closed in accordance with the practice under E   | x parte Quayle, 1935 C.D. 11, 4  | 53 O.G. 213.  |      |
| Dispositi  | ion of Claims  |  |   |      |
| 4) 🖂   | Claim(s) 16-22 is/are pending in the application   | 1.   |   |      |
|  | 4a) Of the above claim(s) is/are withdraw  | vn from consideration.   |   |      |
| 5)   | Claim(s) is/are allowed.   |  | ••  |      |
| 6)⊠  | Claim(s) 16-22 is/are rejected.  |  |   |      |
| 7)   | Claim(s) is/are objected to.   |  |   |      |
| 8)□  | Claim(s) are subject to restriction and/or   | r election requirement.  |   |      |
| Applicati  | ion Papers   |  | ·   |      |
| 9)[]   | The specification is objected to by the Examine  | r.   |   |      |
|  | The drawing(s) filed on is/are: a) acce  |  | Examiner.   |      |
| ,—   | Applicant may not request that any objection to the  |  |   |      |
|  | Replacement drawing sheet(s) including the correct   | ion is required if the drawing(s) is ob  | ojected to. See 37 CFR 1.121(d).  |      |
| 11)  | The oath or declaration is objected to by the Ex   | aminer. Note the attached Office   | e Action or form PTO-152.   |      |
| Priority u   | under 35 U.S.C. § 119  | ·  |   |      |
| 12)  | Acknowledgment is made of a claim for foreign  | priority under 35 U.S.C. § 119(a   | ı)-(d) or (f).  |      |
|  | ☐ All b)☐ Some * c)☐ None of:  | ,  |   |      |
| ,  | 1. Certified copies of the priority documents  | s have been received.  |   |      |
|  | 2. Certified copies of the priority documents  | s have been received in Applicat   | ion No  |      |
|  | 3. Copies of the certified copies of the prior   | ity documents have been receiv   | ed in this National Stage   |      |
|  | application from the International Bureau  | ı (PCT Rule 17.2(a)).  |   |      |
| * 5  | See the attached detailed Office action for a list   | of the certified copies not receive  | ed.   |      |
|  |  |  | ·   |      |
| Attach   | t(c)   |  | •   |      |
| Attachmen  | τ(s)<br>se of References Cited (PTO-892)   | 4) Interview Summary   | / (PTO-413)   |      |
|  | te of Neterlances Cited (F10-032) te of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail D   | Pate  |      |
|  | mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date  | 5) Notice of Informal 6) Other:  | Patent Application  |      |

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### **Detailed Action**

## Response to Amendment

1. Applicant's Remarks/Arguments filed on 9/18/2006 regarding claims 16-22 have been considered. Claims 16-22 are currently pending and claims 1-15 have been cancelled by applicant.

## **Double Patenting**

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

2. Claims 17, 22 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 6 of prior U.S. Patent No. 6,389,000. This is a double patenting rejection.

Claim 17 of the instant application recites, the wireless transmitter comprising:

"a transmission subsystem for said modulated first code symbol subset on a first carrier frequency and said modulated second code symbol subsets on a second carrier frequency" (see Jou, claim 1, col. 11, lines 23-26).

Claim 22 of the instant application recites, a wireless transmitter comprising:

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"said transmission subsystem includes a switch for selectively switching said first and second modulated code symbol subsets respectively onto a third carrier frequency" (see Jou, claim 6, col. 11, lines 47-50).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 16, 18-21 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 6,389,000 (hereinafter Jou). Although the conflicting claims are not identical, they are not patentably distinct from each other because the applicant filing of the continuing application is voluntary and not the direct, unmodified result of restriction requirement under 35 U.S.C. 121 (i.e. without a restriction requirement by the examiner) and the claims of the second application are drawn to the "same invention" as the first application or patent. Moreover, although the conflicting claims are not

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identical, they are not patentably distinct from each other because claim 16 of the instant application merely <u>broadens</u> the scope of the claim 1 of the Jou Patent by eliminating the elements and their functions of the claims as set forth below.

Claim 16 of the instant application recites, a wireless transmitter comprising:

"an encoder for encoding ... a demultiplexer for providing ... to provide modulated first code symbol subset and second code symbol subset" (see Jou, claim 1, col. 11, lines 8-22).

Claim 18 of the instant application recites, the wireless transmitter comprising:

"said first and second modulators repeat code symbol within said first and second code symbol subsets, respectively, according to a said respective code symbol rate" (see Jou, claim 2, col. 11, lines 27-30).

Claim 19 of the instant application recites, the wireless transmitter comprising:

"said transmission subsystem scales a respective energy of said first and second modulated code symbol subsets according to a respective amount of code symbol repetition" (see Jou, claim 3, col. 11, lines 31-34).

Claim 20 of the instant application recites, the wireless transmitter comprising:

"said first modulator includes a first interleaver having a first interleaver format dependent on a first code symbol rate, and said second modulator includes a second interleaver having a second interleaver format dependent on a second code symbol rate" (see Jou, claim 4, col. 11, lines 35-40).

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Claim 21 of the instant application recites, the wireless transmitter comprising:

"said first modulator includes a first PN scrambler for scrambling said first code symbol subset according to a first code symbol rate, and said second modulator includes a second PN scrambler for scrambling said second code symbol subset according to a second code symbol rate" (see Jou, claim 5, col. 11, lines 41-46).

It has been held that the omission an element and its function is an obvious expedient if the remaining elements perform the same function as before. *In re Karlson*, 136 USPQ 184 (CCPA). Also note *Ex parte Rainu*, 168 USPQ 375 (Bd.App.1969); omission of a reference element whose function is not needed would be obvious to one skilled in the art. Moreover, the doctrine of double patenting seeks to prevent the unjustified extension of patent exclusivity beyond the term of a patent.

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# Response to Arguments

4. Applicant's arguments have been considered but are moot in view of the double patenting rejection indicated above.

Acknowledgement is made of the terminal disclaimer filed by applicant on 9/18/2006. However, it is noted by the examiner that filing a terminal disclaimer does not place the application in condition for allowance because the double patenting rejection to claims 17, 22 in the previous Office action was a statutory double patenting rejection rather than a non-statutory double patenting rejection, and hence cannot be overcome by merely filing a terminal disclaimer.

In light of the foregoing, claims 17, 22 stand rejected by the statutory double patenting rejection under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 6 of prior U.S. Patent No. 6,389,000.

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### Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Mew whose telephone number is 571-272-3141. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Mew Work Group 2616

HUY D. VU

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